

TOP SECRET

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

DECLASS REVIEW by NIMA/DOD

HANDLE VIA TALENT-KEYHOLE CONTROLS ONLY

TPDS  
JWC  
18 Jan 62



WARNING

"This document contains information affecting the National Defense of the United States within the meaning of the espionage laws, Title 18, USC, Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law".

It is to be seen only by U. S. PERSONNEL especially indoctrinated and authorized to receive TALENT-KEYHOLE information: Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

TOP SECRET

TCS-10990-62-KH  
17 January 1962

Copy 3

MEMORANDUM FOR: Acting Chief, DPD-DD/P

STATINTL

ATTENTION: [REDACTED] DB/DPD-DD/P

SUBJECT: Addition of Grids to KH Photography

1. The Service/Agency Detachments were canvassed to determine what the position of their parent organizations would be with regard to the placement of grid ticks along the edge of each KEYHOLE photograph. Attached are their individual positions.

STATINTL

2. In view of these responses, NPIC cannot recommend proceeding with the construction of a grid titler as proposed by [REDACTED]. Of primary consideration is the fact that grid titling could possibly create delays in film duplication at EK.

STATINTL

[REDACTED]  
Operations Officer, NPIC

STATINTL

Encl:

1. 2 Nov 61 Memo from [REDACTED] (TID, NPIC)
2. 3 Oct 61 Memo from AF Element, USAF
3. 10 Oct 61 Letter from ACIC w/4 attachments
4. 3 Oct 61 DP from ACSI, DA (TAK 2070-61)
5. 5 Oct 61 Letter from ONI, DN (NT-00225)

STATINTL

Distribution:

- Cy 1 - [REDACTED]
- 2 - Ch/TID/NPIC
- 3 - Ch/TFDS/NPIC
- 4&5 - OD/NPIC

STATINTL

NPIC:OD/[REDACTED]:mt/3371 (17 Jan 62)

TOP SECRET

WORKING PAPER

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

2 November 1961

MEMORANDUM FOR: Operations Officer, NPIC  
FROM: Chief, TID/NPIC  
SUBJECT: Comments on Grids for KH Photography

1. The Army, Air Force, and Navy submitted comments on the placement of grid ticks along the edge of each KH photo.

The Army said yes, using xy, number, millimeter system.

The Air Force said yes, but from ACIC sent a sample of the MC grid for consideration. This is a metric system letter number combination.

The Navy said they did not see enough advantage to warrant the expenditure of a large sum of money on new titler.

My comment: If a grid were to be placed somewhere around the edge of the KH photo, I would favor a metric system grid somewhat similar to the overlay grid we are now using; major divisions in one centimeter, numbered consecutively, then divisions within the one centimeter to be two (2) millimeters but not numbered. (See attachment #2). The numbers to start with zero (0) in the lower left hand corner of the frame (when looking down the flight line), then X reading the length of the frame and Y reading up the frame, as in direction of flight.

25X1A 2. At this stage in my thinking I do not see that we would gain [REDACTED] worth of advancement from printing a grid on each frame.

25X1A 3. [REDACTED] has indicated he could design and build a grid titler for cost between [REDACTED] I am sure that he could!

25X1A 4. In attachment #1, I have given a few advantages and problems or disadvantages as I see them. With what little I know about the overall picture I wonder if we would get [REDACTED] advantage in accuracy of readings, speed of operation or other conveniences. Taking accurate

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

TOP SECRET

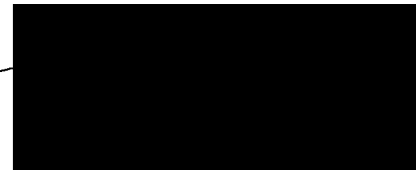
WORKING PAPER

TOP SECRET

WORKING PAPER

readings still would be a problem as noted in Part B-2 of attachment. Placement of the grid could cause a new set of problems a few of which are noted in B-1 of attachment.

25X1A



Attachments:

- 1 - Printing a Grid on the KH Photography
- 2 - Graphical Illustration

25X1A NPIC/TID: [REDACTED]:dbg: [REDACTED] (2 November 61)

TOP SECRET

WORKING PAPER

WORKING PART

TOP SECRET

Attachment - 1

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

## Printing a Grid on the KH Photography

### A. Advantages

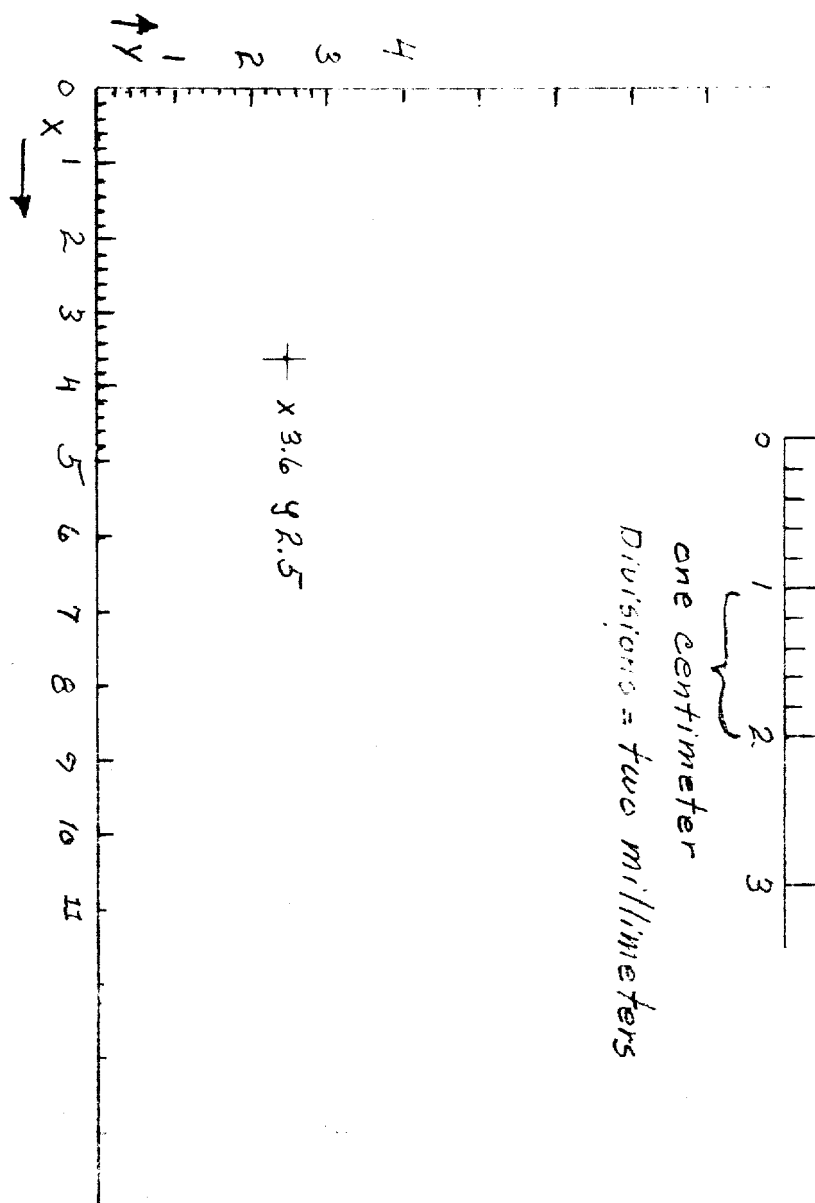
1. By printing the grid on the photography the placement of the grid on the frame is the same for all users.
2. Everyone holding a copy of the film would have the same location reference system for the exchange of information. *(dependent on human accuracies)*

### B. Problems or Disadvantages

1. Small border area
  - a. Free border on KH photography is limited
  - b. On C' photography the titling and digitote on the trailing edge, time pips on the leading edge.
  - c. On C''' titling and digitote on leading, and time pips in border of trailing edge. (I understand time pips to be moved back in to border from format area).
2. Even with a grid placed on the border of the photography reading the Y measurement will require projecting a point to each end of the frame to obtain the y grid reading. This could be done by a straight edge along the length of the frame, or a small y graduated template overlaying the point of interest, or a large template with straight line placed over the point and the grid reading taken at the end of the frame. This is not much of an improvement over what we are doing now, when we place the CM grid over the frame, and read in the proper CM space.
3. One of the fiducial marks for the horizon camera falls in the border at the end of the large frame (a small dot). Placement of a grid and numbers in this area might black out this fiducial mark.
4. Placement of the grid within the image area does not seem the thing to do.

TOP SECRET

WORKING PAPER



Attachment - 2

TOP SECRET

WORKING PAPER

3 October 1961

MEMORANDUM FOR: Operations Officer, NPIC

SUBJECT : Film Grids

1. Reference your memo, same subject, 26 September 1961, TCS-10076-61-KH.

2. In general the Air Force concurs with your proposal. However, we are getting a sample from ACIC, St. Louis of a grid we feel will better serve all the Intelligence Community. Among other requests it will indicate a need for increments of approximately 1/2 cm with further subdivisions between major divisions.

3. Request final action be deferred until our package from St. Louis is available. This should be by 9 October 1961.



STATINTL

*BEST COPY*  
*Available*



ILLEGIB

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

TOP SECRET

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

HANDLE VIA TALENT-KEYHOLE CONTROLS ONLY



## WARNING

"This document contains information affecting the National Defense of the United States within the meaning of the espionage laws, Title 18, USC, Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law".

It is to be seen only by U. S. PERSONNEL especially indoctrinated and authorized to receive TALENT-KEYHOLE information: Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

TOP SECRET

SECRET

Approved For Release 2001/06/13 : CIA-RDP78B04747A001700080001-5

SECURITY CLASSIFICATION (If any)

## DISPOSITION FORM

ONLY

FILE NO.

SUBJECT

Film Grids

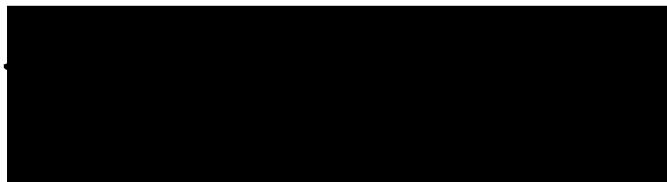
TO Operations Officer, NPIC FROM Chief, Tech. Br.,  
Coll. Div., OACSI

DATE 3 Oct. 61

COMMENT NO. 1

1. Reference your Memorandum, dated 26 September 1961, same subject.
2. This office agrees that there is a requirement for a coordinate marking system for both TALENT and KEYHOLE photographs, and concurs with the principles proposed in the referenced memorandum.
3. The following comments are submitted:
  - a. Use of the letters "X" and "Y" (instead of "T" and "V") would simplify the identification of the coordinates. The user would read the X-axis to the right and the Y-axis up, as in reading a map, i.e., "read right up".
  - b. The use of a millimeter scale located at the bottom and both right and left edges would provide sufficient precision for locating a point.
  - c. TALENT material should be marked so that the "X" numbers increase in the direction of the line of flight starting with "1" on each frame. The "Y" numbers should increase from "1" through 24 on the right half (of the 18" x 18" photograph), skip 25 and continue from 26 through 49 on the left half. This will eliminate the confusion that might result from "the right half of the left oblique".

25X1A



HANDLE VIA TALENT -  
KEYHOLE CHANNELS  
ONLY

SECRET

TRK-2070-61

Copy 1 of 7 copies

OTK-101-2001

DD FORM 1 FEB 50 96

Approved For Release 2001/06/13 : CIA-RDP78B04747A001700080001-5  
REPLACES NME FORM 96, 1 OCT 48, WHICH MAY BE USED

CLASSIFICATION **SECRET**

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

COVER SHEET ONLY

**T  
A  
L  
E  
N  
T**

6 OCT 1961

*lps* —

**HANDLE VIA TALENT  
CONTROL SYSTEM ONLY**

"THIS DOCUMENT CONTAINS  
INFORMATION AFFECTING  
THE NATIONAL DEFENSE OF  
THE UNITED STATES WITHIN  
THE MEANING OF THE ESPIO-  
NAGE LAWS, TITLE 18, USCA,  
SECS 793 & 794, THE TRANS-  
MISSION OR REVELATION OF  
WHICH IN ANY MANNER TO  
AN UNAUTHORIZED PERSON  
IS PROHIBITED BY LAW"

**HANDLE BY TALENT  
CONTROL CHANNELS  
ONLY**

**HANDLE VIA TALENT  
CONTROL SYSTEM ONLY**

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

CLASSIFICATION **SECRET**

25X1A

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5

Approved For Release 2001/08/13 : CIA-RDP78B04747A001700080001-5